Chairman’s Statement

The past year has been very productive for the Mechanical Engineering Department, at the University of Texas at Austin. We continue to move toward the goal of becoming the foremost ME department in the nation. We are pursuing our missions to educate the next generation of leaders, create, explore and develop new innovations, and provide beneficial service to the local, state, national and international communities. Our undergraduate program has moved to tenth in the country, according to the 2005 edition of the U. S. News & World Report survey of the country’s 330 accredited engineering undergraduate schools. Our faculty members were recognized locally and nationally for their outstanding achievements, in and out of the classroom. Our students continue to excel academically, and in professional organizations.

Operation Phoenix is a $1.2 million major fundraising campaign centered on the Engineering Teaching Center T-Room, underwritten by the Ford Motor Company. This major renovation includes communication displays, Internet access and a comfortable place for students to interact. We are equipping our major teaching facilities with up-to-date media and computational capabilities. Thanks to a generous donation by Hewlett-Packard, we have been able to provide wireless Internet access throughout the Mechanical Engineering building.

Becoming a top-ranked mechanical engineering department requires a coordinated effort by many constituencies. An excellent faculty is imperative. Outstanding staff is integral to effective operation. Well-prepared undergraduates and graduate students make substantial contributions. Our alumni have much to offer. Our External Advisory Committee and corporate partners make a real difference in the quality program we are able to offer. Our varied constituencies reflect a department of which I am proud to be a part.

Joseph J. Beaman, Jr., ScD, P.E.
Chair, Mechanical Engineering
Mechanical Engineering Faculty By Area

ACOUSTICS
Acoustical principles are required to model and predict the distributed motion of any continuous medium. The broad interdisciplinary scope of acoustics and its fundamental importance to a wide range of technologies make it a unique combination of engineering and science. The Acoustics Program at the University of Texas offers excellent opportunities to learn the fundamentals of acoustics and use them in basic and applied research projects. Former graduate students occupy a variety of positions in government laboratories, industry, consulting firms, and universities. For more program information: http://www.me.utexas.edu/areas/acoustics/

David T. Blackstock - Professor Emeritus
Mark F. Hamilton - Professor
Preston S. Wilson - Assistant Professor

BIOMECHANICAL ENGINEERING
Biomechanical Engineering is the application of engineering science and technology to problems in medicine and biology, on a human-scale. The human body is the primary component of a Biomechanical Engineering enterprise. Areas of application include medical devices, medical instrumentation, and research in medical physiology, materials, and pharmaceuticals. The mechanical engineer with this specialization might be involved in the design of heart valves, blood pumps, methods of blood preservation, or thermal protective clothing. He or she might also develop robotic systems for surgical procedures, aided hearing systems, materials for implantation into the body, or sterile packaging. The Mechanical Engineering Degree with the Biomechanical Engineering option leads to the following professional activities: Mechanical Engineer, Clinical Engineer, Schools for the Medical Professions and Graduate Studies in Biomedical Engineering. For additional program information: http://www.me.utexas.edu/areas/bmc/

Ronald E. Barr - Professor
Tessie Jo Moon - Professor
Richard R. Neptune - Assistant Professor

DYNAMIC SYSTEMS & CONTROLS
This is a newly established area within the Mechanical Engineering department; it is a division of what was formerly called Mechanical Systems and Design. The Dynamic Systems and Controls area focuses on principles and methods for designing and controlling engineered and natural systems. A broad-based perspective inspires a creative engineering approach to applications involving systems comprised of multiple interacting energetic devices or processes having a wide range of spatial and temporal scales. Specific areas of concentration that contribute to this effort include acoustics, applied mechanics, bioengineering, computational sciences, constitutive behavior and design of materials, electromechanics, control and information theory, multibody dynamics, and system dynamics. Typical application areas include novel transducer designs, biomechanics at the cellular and human scale, dynamics and control of power and vehicle systems, and innovations in signal and information theory. Graduates from this program may be found in the automotive and aerospace industries as well as in national research laboratories and start-up industries. Learn more about Dynamic Systems & Controls at: http://www.me.utexas.edu/~msdarea/

Ronald E. Barr - Professor
Michael D. Bryant - Professor, Graduate Advisor (MFG)
Eric P. Fahrenthold - Professor
Benito Fernandez-Rodriguez - Associate Professor
Mark F. Hamilton - Professor, Area Coordinator
Raul G. Longoria - Associate Professor
Glenn Y. Masada - Professor
Tessie Jo Moon - Professor
Richard R. Neptune - Assistant Professor
Preston S. Wilson - Assistant Professor

ENGINEERING COMMUNICATION
This is a course for students studying professional and technical forms of communication. The curriculum for ME 333T won an award in 1990 from the American Society of Mechanical Engineers as the best innovation in a mechanical engineering curriculum nationwide. For more information on this course, visit: http://www.me.utexas.edu/~me333t/index.html

O. Christene Moore - Senior Lecturer
ENGINEERING COMPUTER GRAPHICS

The Engineering and Computer Graphics (ECG) area of Mechanical Engineering is a teaching and service area specializing in computer graphics and computer-aided design (CAD) technology, as it pertains to engineering design. The area is responsible for instruction in the core courses ME302 and ME210, and in the elective course ME352K. The area maintains the freshman graphics lab (FGL) and the freshman rapid prototyping (RP) lab. Faculty in the area are active in developing curriculum exercises in 3-D computer modeling, and participate professionally in the American Society for Engineering Education (ASEE). For more information about this program: http://www.me.utexas.edu/areas/ecg/

Theodore A. Aanstoos - Senior Lecturer
Ronald E. Barr - Professor, Area Coordinator
Thomas J. Krueger - Teaching Specialist
Mostafa Pirnia - Teaching Specialist
Billy H. Wood - Teaching Specialist

MATERIALS SCIENCE & ENGINEERING

Materials Science and Engineering involves understanding and tailoring of the relationships between the structures and processing of materials and their properties and performance. As a technical option area in Mechanical Engineering, the emphasis is on the microstructure of materials, the origin of physical and mechanical properties, and the role of processing. Applications include development of new lightweight, high strength materials for automotive and aerospace applications, minimizing corrosion of pipe in sour oil wells, analyzing failures in microelectronics packages, developing and processing new superconducting materials, and selecting a bearing material with outstanding resistance to wear. Potential employers include the manufacturing sector, electrical and electronic equipment, aircraft and parts, machinery, scientific instruments, motor vehicles, fabricated metal products, and primary materials production. For additional program information: http://www.me.utexas.edu/areas/mse/

David L. Bourrell - Professor, Associate Chair for Administration and Research
Paulo J. Ferrreira - Assistant Professor
John B. Goodenough - Professor
Paul S. Ho - Professor
Desiderio Kovar - Associate Professor
Arunugam Manthiram – Professor, Area Coordinator
Llewellyn K. Rabenberg - Associate Professor
Kenneth M. Kalls - Professor, Graduate Advisor (MSE)
Juan M. Sanchez - Professor, UT Vice-President for Research
Michael A. Schmerling - Lecturer
Eric M. Taleff - Associate Professor
Harovel G. Wheat - Associate Professor, Associate Chair for Academic Affairs

MANUFACTURING & DESIGN

This is a newly established area within the Mechanical Engineering department, it is a division of what was formerly called Mechanical Systems and Design. This discipline utilizes modern analytical tools to design structures and systems associated with power plants, manufacturing machines, transport vehicles, robots, space stations, recycling, hazardous-waste management, military hardware, prosthetic devices, and even toys for children. Today’s manufacturing processes utilize precision machine systems. The supporting technologies for these systems include machine tools, robotics, metrology, microelectronic systems, and human augmentation systems. Research in manufacturing processes also addresses several specific processes, including free-form fabrication with laser sintering, a process invented in this Department that enables computer-guided production of any three-dimensional object directly from a design database. For more program information: http://www.me.utexas.edu/~msdarea/

Joseph J. Beaman - Professor, Department Chair
Michael D. Bryant - Professor
Matthew I. Campbell - Assistant Professor
Richard H. Crawford - Professor
Billy V. Koen - Professor
Tessie Jo Moon - Professor
Steven P. Nichols - Professor, Associate Vice-President for Research, Director of the Chair of Free Enterprise
S. V. Sreenivasan - Associate Professor
Delbert Tesar - Professor
Alfred E. Traver - Senior Lecturer
Kristin L. Wood – Professor, Area Coordinator

Engineering is the art of organizing and directing men and controlling the forces and materials of nature for the benefit of the human race.

Henry G. Stott, 1907
NUCLEAR & RADIATION ENGINEERING
Nuclear and Radiation Engineering covers basic radiation physics, applied radiation protection, and radiation applications in industry, health care, and materials science. Also covered are introductory reactor physics and reactor power systems including nuclear thermal hydraulics and the nuclear fuel cycle. As a mechanical engineer with an introduction to Nuclear and Radiation Engineering, one could help create a means of deep space propulsion, develop new ways of producing and using radioisotopes, or assist in providing electrical power in a safe, efficient, and environmentally benign way. Graduate Studies in Health Physics which began in the Fall of 1998, expanded the Nuclear and Radiation Engineering Program to offer a Masters in Mechanical Engineering with an emphasis in Health Physics. The graduate courses are offered through distance education, via the worldwide web and are developed for the working professional, full-time student, or persons interested in continuing education. For additional information on this program: [http://www.me.utexas.edu/~nuclear/](http://www.me.utexas.edu/~nuclear/)

Steven R. Biegalski - Assistant Professor
Dale E. Klein - Professor, U.S. Assistant Secretary of Defense
Sheldon P. Landsberger – Professor, Area Coordinator

OPERATIONS RESEARCH & INDUSTRIAL ENGINEERING
Operations Research is a mathematical science concerned with optimal decision making and modeling of deterministic and probabilistic systems. Its focus and field of application are interdisciplinary, embracing a range of quantitative techniques with components in economics, computer science, and systems theory. Similarly, Industrial Engineering is concerned with the design, improvement, and installation of integrated systems of persons, material, and equipment. The practice of Operations Research and Industrial Engineering addresses both the performance objectives and the resource constraints of an organization and works toward establishing policies that are the most beneficial to the organization as a whole. Related problems may be as specific as improving the efficiency of a production line or as broad as developing a long-range corporate strategy involving a combination of financial, marketing, and technological concerns. For further program information: [http://www.me.utexas.edu/~orie/](http://www.me.utexas.edu/~orie/)

Jonathan F. Bard - Professor, Program Coordinator (ORIE), Area Coordinator
J. Wesley Barnes - Professor, Graduate Advisor (ORIE)
Melba M. Crawford - Professor
John J. Hasenbein - Assistant Professor, Graduate Advisor (MFG)
Erhan Kutanoglu - Assistant Professor
David P. Morton - Associate Professor
Elmira Popova - Associate Professor

THERMAL / FLUIDS SYSTEMS
Courses in the Thermal/Fluid Systems option emphasize thermal processes: the production, transfer, conversion, and storage of thermal and other energy forms. The foundation courses for this are Thermo 1 (ME326), Fluids (ME330), and Heat Transfer (ME339). The T/FS elective courses generally fall into the categories of intermediate fluids, heat transfer and thermal design, as well as specialized courses in combustion processes/engines, air-conditioning, and solar energy. Courses in this area prepare a student for work on: power generating equipment such as auto/truck engines, jet engines, and electric power plants; process equipment including heat exchangers, dryers, and evaporators; pipeline equipment; compressors and valves; and furnaces and burners. Companies requiring mechanical engineers with this type of technical background include oil and chemical, aerospace, pipeline, and paper mills. For more information on this program: [http://www.me.utexas.edu/areas/tfs/](http://www.me.utexas.edu/areas/tfs/)

David G. Bogard - Professor, Graduate Advisor (ME), Area Coordinator
Shaochen Chen - Assistant Professor
Michael E. Crawford - Professor
Janet I. Ellzy - Professor, Associate Chair for International Studies & Globalization, Associate Director for International Studies for the Chair of Free Enterprise
Ofodike A. Ezekoye - Associate Professor, Assistant Graduate Advisor (ME)
Matthew J. Hall - Professor
John R. Howell - Professor
Thomas M. Kiehne - Lecturer
Ronald D. Matthews - Professor
Ronald L. Panton - Professor
Philip S. Schmidt - Professor, Associate Chair for Undergraduate Program Development
Li Shi - Assistant Professor
Gary C. Viet - Professor
Faculty Honors/Awards/Updates

Theodore A. Aanstoos
- Chair’s Award from the ASEE 2003 Annual Conference, in sessions sponsored by the Engineering Design Graphics Division for his co-authored paper entitled ‘Assessing Student Outcomes in an Engineering Design and Graphics Course."
- Dedicated Service Award from ASME International in November 2003.

Kenneth S. Ball
- Texas Higher Education Coordinating Board 2004-06 Advanced Technology Program Award for his co-PI research submission, entitled ‘Accurate Infrared Sensors for Measurement of Surface Temperature Distributions."
- Congratulations on his appointment as Department Head of Mechanical Engineering at Virginia Tech, effective August 1, 2004.

Jonathan F. Bard

J. Wesley Barnes
- Adjunct Professor, Air Force Institute of Technology, 2000 - Present.

Ronald E. Barr
- Chair’s Award from the ASEE 2003 Annual Conference in sessions sponsored by the Engineering Design Graphics Division for his co-authored paper entitled ‘Assessing Student Outcomes in an Engineering Design and Graphics Course.
- Voted President-elect of the American Society for Engineering Education (ASEE).

Steven R. Biegalski
- Received his Senior Reactor License, given by the US Nuclear Regulatory Commission.
- Chosen to serve on the American Nuclear Society Professional Engineering Committee.

Matthew I. Campbell
- Best Paper Award at the Fourteenth Solid Freeform Fabrication Symposium, August 2003.

Shaochen Chen
- Young Investigator Award from the Office of Naval Research, for his project on Advanced Laser Manufacturing of Polymeric Nanocomposites.

Melba M. Crawford
- Named a member of the first class of Jefferson Science Fellows at the U.S. Department of State. Dr. Crawford was chosen for her scientific achievements, articulation and communication skills to accurately describe scientific topics for non-scientific audiences, and her interest in science policy. Dr. Crawford will work at the U.S. State Department for a year, and will subsequently remain available as a consultant.

Janet L. Ellzey
- Named the Mechanical Engineering Associate Chair for International Studies and Globalization.
- Appointed Associate Director for International Studies, for the Chair of Free Enterprise.

John B. Goodenough
- Identified as one of 34 UT-Austin faculty members, as among the most highly cited researchers in the world, by the Institute for Scientific Information.
- Foreign Member, Academia de Ciencias Exactas, Físicas y Naturales, Spain

Mark F. Hamilton
- Elects Vice-President of the Acoustical Society of America.

Paul S. Ho
- Identified as one of 34 UT-Austin faculty members, as among the most highly cited researchers in the world, by the Institute for Scientific Information.
- Texas Higher Education Coordinating Board 2004-06 Advanced Technology Program Award for his co-PI research submission entitled ‘Interfacial Engineering for Electromigration Reliability for Cu Interconnects Beyond 65nm Technology."

John R. Howell
- Texas Higher Education Coordinating Board 2004-06 Advanced Technology Program Award for his co-PI research submission, entitled ‘Accurate Infrared Sensors for Measurement of Surface Temperature Distributions."

Thomas J. Krueger
- Chair’s Award from the ASEE 2003 Annual Conference in sessions sponsored by the Engineering Design Graphics Division for his co-authored paper entitled ‘Assessing Student Outcomes in an Engineering Design and Graphics Course.

You can’t build a reputation on what you are going to do. Henry Ford
Sheldon Landsberger
- Presented an invited talk titled, Modeling in Air Pollution Monitoring, at the June 2004 International Atomic Energy Thematic Planning Meeting, in Vienna, Austria.

Raul G. Longoria
- Develops prototype for a potentially cheaper and safer heart pump, in collaboration with Dr. Alan Ulert and Dr. Richard Smalling

Arumugam Manthiram
- Elected as a Fellow of the American Ceramic Society in April 2004.
- Texas Higher Education Coordinating Board 2004-06 Technology Development and Transfer Program Award for his research submission entitled Nanocomposite Manganese Oxides for High Power, Environmentally Safe Rechargeable Alkaline Batteries.

Richard R. Neptune
- 2004 National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award, for improving walking abilities of amputees.
- Selected to receive a Da Vinci Award for the application of Selective Laser Sintering techniques to improve mobility for people with lower-limb disabilities, in Fall 2004.

Steven P. Nichols
- Texas Higher Education Coordinating Board 2004-06 Technology Development and Transfer Program Award for his research submission entitled Semi-Active Suspension System Technology Development and Transfer.
- As Murchison Chair of Free Enterprise, Dr. Nichols co-sponsored the April 16th activities of the 2004 University of Texas Ethics Conference.

Philip S. Schmidt
- Named the Mechanical Engineering Associate Chair for Undergraduate Program Development.

Li Shi
- National Science Foundation CAREER Award, 2003-2008, for his work on thermal transport and thermoelectric measurements of Nanotransistors, Nanowires, and Superlattices.
- Young Investigator Award from the Office of Naval Research, for his project on the Characterization of Nanostructures for Thermoelectric Refrigeration and Power Generation.

Gary C. Vliet
- Named a Fellow of the American Solar Energy Society.
- Hoyt Clarke Hottel Award from the American Solar Energy Society in summer 2003, for development of a statewide solar radiation database and for his guidance as an educator.

Harovel G. Wheat
- Selected for two NASA Faculty Fellowship Programs at both the Langley Research Center (summer 2004) and Kennedy Space Center (Fall 2004).

### Mechanical Engineering Faculty Related Research Entities

**CLEAN ENERGY TECHNOLOGIES (CET) GROUP**

**COMBUSTION RESEARCH GROUP**

**GRAPHICS LAB**

**HIGHWAY NOISE CONTROL**

**INVERSE DESIGN of ENERGY APPLICATIONS (IDEA) LAB**

**INTEGRATED MECHANICS of PROCESSING and COMPOSITES**

**MANUFACTURING TECHNOLOGIES (IMPACT) LAB**

**LABORATORY for FREEFORM FABRICATION**

**MANUFACTURING AND DESIGN (MAD) LAB**

**NANO- AND MICRO-SYSTEMS GROUP**

**NEURO ENGINEERING RESEARCH & DEVELOPMENT LABORATORY**

**NUCLEAR ENGINEERING TEACHING LABORATORY**

**ROBOTICS RESEARCH GROUP**

**SOLAR ENERGY LABORATORY**

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**Effective September 1, 2003:**
Title of Professor Emeritus conferred to:
- Dr. Paul A. Jensen
- Dr. Jerold W. Jones
- Dr. Frederick F. Ling

**Effective September 1, 2004:**
Steven P. Nichols will be promoted to Full Professor.
Elmira Popova will be promoted to Associate Professor
Believe those who are seeking the truth.
Doubt those who find it.
Andre Gide

Marcus Ashford, MSME 2002, PhD ME 2004
• Received the 2004 National Society of Black Engineers, Golden Torch Award for Graduate Student of the Year.
• Has accepted a position teaching Mechanical Engineering at the University of Alabama for Fall 2004.

Dr. David Blackstock, Professor Emeritus
• First recipient of the newly established, Acoustical Society of America’s Student Council Mentoring Award.

J. Andy Dare, MS ORIE 2004
• One of 42 UT-Austin Students cycling for cancer in the Texas 4000, a 70-day, 4,500-mile journey across the US and Canada to Alaska, to raise money for cancer research and services.

Donald L. Evans, BSME 1969
• Secretary of the U.S. Department of Commerce delivered the 2004 UT Commencement Address on May 22.

Yi Lu, MSME 2003
• One of 4 recipients of the 2004 Outstanding Thesis/Report award from UT, for his masters’ thesis “Laser Micro/Nano Patterning”.

Julio A. Padilla, MS ORIE 1980/PhD ME 1982
• Dr. Julio A. Padilla named Dean of the Engineering School of the Universidad de Lima, Lima Peru, in November 2003.

Karen A. Thole, PhD ME 1992
• Selected a Fellow of the American Society of Mechanical Engineers. Dr. Thole is an Associate Professor at Virginia Polytechnic Institute and State University, specializing in gas turbine heat transfer and fluid mechanics.

Woodford Chenault, BSME 1942, of Austin, Texas, died September 5, 2003.


Martin Dreiss, Jr., BSME 1959, of San Antonio, Texas, died October 11, 2003.


Herb Fischer, BSME 1959, of Huntington, Alabama, died October 9, 2003.

Dr. Werner Goldsmith, BSME 1944, MSME 1945, of Berkeley, California, died August 23, 2003.


Dr. Leonardt F. Kreisle, BSAE 1944, MSME 1947, UT Professor Emeritus, of Austin, Texas, died June 14, 2004.


John P. O’Meara, BSME 1957, of Houston, Texas, died April 9, 2004.


John M. Scott, BSME 1940, of Waco, Texas, died on July 15, 2003.

Mary Jo Fitzgerald Short, wife of Dr. Byron E. Short, of Austin, Texas, died on July 16, 2004.

Thomas Slaten, BSME 1959, of Colleyville, Texas, died October 17, 2003.

Fred Nance Smith, BSME 1934, of Millican, Texas, died January 2004.


William M. Wilcox, MSME 1951, of Austin, Texas, died September 13, 2003.

The ideal engineer is a composite... He is not a scientist, he is not a mathematician, he is not a sociologist or a writer; but he may use the knowledge and techniques of any or all of these disciplines in solving engineering problems.

N. W. Dougherty, 1955
Dr. Leonardt F. Kreisle, born in Austin, Texas, received his bachelor's degree (1944) and master's degree (1951) in Architectural Engineering and Mechanical Engineering, respectively, from UT-Austin. He began his academic career at UT-Austin in 1941, as an instructor. He joined the Mechanical Engineering department in summer 1945, and served as Assistant Professor from 1949 - 1956. Dr. Kreisle took a leave of absence from UT-Austin in 1953, to teach machine design at Cornell University, where he earned his PhD in 1955. He was one of the first engineering faculty members to be encouraged to go elsewhere to obtain his PhD degree, furthering both his education and teaching capabilities. In 1956, he returned to UT and was promoted to Associate Professor, and in 1969 to Full Professor. Dr. Kreisle became Professor Emeritus in 1992. Dr. Kreisle served on numerous academic and professional committees, as the Engineering Counselor for the College of Engineering from 1968 - 1977, and as the ME Undergraduate Advisor from 1977 - 1981.

More than anything, Dr. Kreisle embodied the "teaching" model as a professor. He had an outstanding record of teaching at UT-Austin, having been acknowledged with many awards at the departmental, collegiate and university-levels. Some of the awards he received include: the Pi Tau Sigma Teaching Excellence Award from Cornell University; the Student Engineering Council, UT-Austin Distinguished Advisor Award (won twice); the Student Engineering Council, UT-Austin Mechanical Engineering Teaching Excellence Award (won four times); the General Dynamics Corporation Teaching Excellence Award; the University of Texas at Austin Students' Society Teaching Excellence Award; the Order of Alee for contributions as teacher, friend and counselor of the students over a period of 35 years; Fria Society Commendations for Excellence in Undergraduate Teaching; perhaps most notably within Mechanical Engineering, the Leonardt F. Kreisle Senior Design Project Laboratory dedication (as a result of donations from former students in design); Chancellor's Council Outstanding Teaching Award, Fred Merryfield Design Award from the American Society for Engineering Education. Additionally, Dr. Kreisle was instrumental in the design and color rendering of the first official seal of The University of Texas System.

Dr. Kreisle never stopped encouraging students. He always felt that engineering is more than knowing formulas, facts and figures, and admired creativity in his students. As he supervised the Senior Design Program, he continually saw the creative side of UT Mechanical Engineering students. This gave him some of his greatest satisfaction as a professor. The Leonardt F. Kreisle Scholarship continues to benefit some of the most creative and innovative students in the College of Engineering - Mechanical Engineers.

"Essentially all available College awards for Teaching Excellence and Engineering Student Counseling have been given to him" ... Dr. William H. Cunningham, UT President (1985 - 1992), on Dr. Kreisle's awards.

"To Leonardt --- Who sets the pace by being the best advisor and friend our students ever had."... Dr. John J. McKetta, Jr., 1966 (Dean of Engineering 1963 - 1969)
<table>
<thead>
<tr>
<th>Member Name</th>
<th>Position</th>
<th>Company</th>
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<tr>
<td>Robby Abarca, 2004 – 2005 Scribe</td>
<td>Policy Advisor to the Chairman</td>
<td>Public Utility Commission of Texas</td>
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<tr>
<td>Nicolas Bell</td>
<td>Manager, Engineering &amp; Maintenance</td>
<td>Shell Chemical LP</td>
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<tr>
<td>Walt Benson</td>
<td>Mechanical Metier Manager</td>
<td>Schlumberger - Sugar Land Product Center</td>
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<tr>
<td>Jack F. Browder</td>
<td>Vice-President of Operations</td>
<td>Northern Star Generation Company</td>
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<tr>
<td>Todd E. Campbell</td>
<td>Director of Engineering, CPI</td>
<td>Applied Materials</td>
</tr>
<tr>
<td>W. Chase Canfield III</td>
<td>President</td>
<td>Hi-Tech Electric, Inc.</td>
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<tr>
<td>David M. Cobb</td>
<td>General Manager, LNG</td>
<td>Sempra Energy International</td>
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<tr>
<td>Jeannie Falcon, Ph.D.</td>
<td>Senior Engineer</td>
<td>National Instruments</td>
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<tr>
<td>H. Neal Hammond</td>
<td>VP &amp; APM, Program Integration</td>
<td>United Space Alliance</td>
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<td>E. Dan Hirleman, Ph.D.</td>
<td>Professor and William E. and Florence E. Perry Head</td>
<td>Purdue University</td>
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<tr>
<td>Carol Hsu</td>
<td>Project Manager, Mechanism Core Division</td>
<td>Hewlett-Packard Company</td>
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<tr>
<td>Joe Juarez</td>
<td>Technical Staff</td>
<td>Honeywell</td>
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<tr>
<td>Steve Lewis</td>
<td>Director, Strategic Planning</td>
<td>Ford Motor Company</td>
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<tr>
<td>Wayne Meyer</td>
<td>Product Line Manager</td>
<td>Analog Devices, Inc.</td>
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<tr>
<td>Doug Nelson</td>
<td>Director – DAO Fulfillment Engineering</td>
<td>Dell Inc.</td>
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<tr>
<td>Colin Norman</td>
<td>Laboratory Manager</td>
<td>3M</td>
</tr>
<tr>
<td>Arthur C. Ratzel III, Ph.D.</td>
<td>Chief of Staff, Nuclear Weapons Prgm.</td>
<td>Sandia National Laboratories</td>
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<tr>
<td>Shauna Flynn-Sowell</td>
<td>Vice-President, Manager DFAB</td>
<td>Texas Instruments, Inc.</td>
</tr>
<tr>
<td>James K. Stewart, 2004 – 2005 Vice-Chair</td>
<td>Manger, Powertrain Portfolio Planning</td>
<td>General Motors Powertrain</td>
</tr>
<tr>
<td>Warren Waggoner</td>
<td>Manager, System Software Global Services Company</td>
<td>ExxonMobil Corporation</td>
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<tr>
<td>Max Willis, Ph.D.</td>
<td>Operations Manager</td>
<td>Spansion, LLC</td>
</tr>
<tr>
<td>Judy Wright, 2004 -2005 Chair</td>
<td>i.GPS Business Development Manager</td>
<td>Freescale Semiconductor, Inc.</td>
</tr>
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I am a strong believer in luck and I find the harder I work the more I have of it.

Benjamin Franklin

Staff Retirements

John Pedracine

John Pedracine joined the staff of the University of Texas 35 years ago. He spent his first year with Civil Engineering and the subsequent period with the Central Machine Shop, which serviced the entire UT engineering community. He then came to ME as a Scientific Instrument Maker, and taught classes for the shop laboratories, designed and manufactured parts for research and undergraduate classes, and gave invaluable assistance and guidance to students working on their projects. John’s long background with the department made him the perfect historian for the shop. He remembers processes and procedures for experimental equipment built long ago, as well as the history of the people involved with the projects.

John Pedracine has contributed a great deal to the Department throughout his long career. One of the first things people notice about John is his calm demeanor. He always listens intently to questions, whether about a manufacturing design, process, or procedure and when he answers, you can be sure he is providing factual information, usually based on personal experience. This personal trait has benefited countless ME students and researchers, as well as his colleagues in the shop. Those fortunate enough to have been taken under his wing, and the number is surely in the hundreds, if not the thousands, undoubtedly were enriched by the experience.

John’s attention to detail is evident in all of the projects he produced. His welding skills put him in a class with the best in that profession. Many of the parts fabricated for use with the nuclear reactor at Pickle Research Center were machined and welded by John. His machining skills can only be described as exceptional. He always cared as much about the aesthetics of the finished parts as he did about the tight dimensional feature tolerances, a detail sometimes overlooked by the students when requesting the work, but always appreciated by their faculty supervisor. Craftsmen like John are rare and the department was fortunate to have him for such a long period of time.


Kathryn Worley

Kathy began her career at UT-Austin on April 15, 1974 in Central Receiving and Delivery. She then moved to the Zoology Department for 4 years. She started with the ME department in August 1979. She was hired to process departmental and research purchase orders, but soon discovered the need for someone to do the departmental bookkeeping. Kathy’s job evolved from just purchasing into one that became very important to the department. In addition to departmental purchasing, she maintained all the accounting on the departmental funds, which today exceeds $1.5 million dollars annually (from $200,000/year in 1979). In 1998, she was assigned the yearly budgets for the departmental fee and endowment accounts. Then in January 2001, Kathy became the Area Staff Supervisor.

She was a crusader who totally supported her staff, which in turn earned their trust and support. She was a great support staff member. During maternity leaves and transition periods, Kathy never hesitated to take up the slack with any duties necessary, including those of the EA. This was possible because of Kathy’s tremendous knowledge of both UT and ME procedures, and her history with the Department. She was always looking for ways to improve staff morale. Kathy always cheered on the ME team. Kathy’s dedication and hard work were an effort to make life in the Department of Mechanical Engineering easier for both faculty and staff.

Over her 30-year career at UT, she won numerous awards including the ME Excellence Award, which she won twice, the UT Excellence Award, which she won twice (a major achievement), and the Dean’s Excellence Award.

She is now enjoying her retirement, effective August 31, 2004. Kathy & her husband, Bob, plan to move to Colorado.
Mechanical Engineering at UT-Austin

Alumni & Industrial Relations Office

Danielle Fournier, Coordinator

1 University Station; Mail Code C2200
Austin, Texas 78712-0292

PHONE: 512-471-5971

FAX: 512-471-8727

E-MAIL: d.fournier@mail.utexas.edu

Mechanical Engineering Administration

Chairman
Associate Chair for Administration & Research
Associate Chair for Academic Affairs
Associate Chair for Undergraduate Program Development
Associate Chair for International Studies & Globalization
Graduate Advisor, ME Program
Graduate Advisor, OR/IE Programs
Graduate Advisor, MFG Program
Undergraduate Advisor
Senior Design Projects Program Director
Executive Assistant (Personnel and Budgets)
Chair of ME External Advisory Committee

Dr. Joseph J. Beaman, Jr.
Dr. David L. Bourell
Dr. Harovel G. Wheat
Dr. Philip S. Schmidt
Dr. Janet Ellzey
Dr. David G. Bogard
Dr. J. Wesley Barnes
Dr. John J. Hasenbein
Dr. Harovel G. Wheat
Dr. Richard H. Crawford
Ms. Liza Scarborough
Ms. Judy Wright

Save the Date in 2005

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>March 5, 2005</td>
<td>Explore UT&lt;br&gt;The Biggest Open House in Texas!</td>
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<tr>
<td>May 20, 2005</td>
<td>College of Engineering Graduation</td>
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<tr>
<td>May 21, 2005</td>
<td>UT Spring Commencement</td>
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<tr>
<td>August 30, 2005</td>
<td>4th Annual ME Back to School Bash</td>
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<tr>
<td>October 21, 2005</td>
<td>ME Academy of Distinguished Alumni Reception</td>
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<tr>
<td>October 22, 2005</td>
<td>ME Tailgate Party&lt;br&gt;UT vs. Texas Tech Football game</td>
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</tbody>
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For updates or changes to your information, return by fax to: 512-471-8727, or electronically to: d.fournier@mail.utexas.edu

Please include your Name:
Address:
E-mail:
Daytime phone:
Evening phone:
Graduation year:
Employer:
Business address:
Degrees: